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PATENT

Attorney Docket No. A-63761-7  
Attorney File No.: 463037-00048

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

*In re* application of

KAYYEM *et al.*

Serial No. 10/081,936

Filed: February 20, 2002

For: *Electrodes Linked Via Conductive Oligomers to Nucleic Acids*

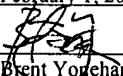
Art Unit: 1631

Examiner: MARSCHEL, Ardin H.

CERTIFICATE OF MAILING

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Date: February 1, 2005

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Brent Yonehara

INFORMATION DISCLOSURE STATEMENT  
AND  
STATEMENT OF RELATEDNESS

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In satisfaction of the duty of disclosure under 37 C.F.R. § 1.56, and in accordance with the provisions of 37 C.F.R. §§ 1.97 and 1.98, Applicants wish to draw the attention of the U.S. Patent and Trademark Office to the references cited on the accompanying form PTO/SB/8A. In accordance with 1287 Off. Gaz. Pat. Office 163 (10/19/2004), no copies of U.S. patents or U.S. patent publications are enclosed. Copies of all other references are enclosed..

Further, this application is a continuation of the following related U.S. Application – Serial No. 08/873,978, filed June 12, 1997 (pending). Applicant wishes to draw the attention of the U.S. Patent and Trademark Office to the references cited on the

Serial No.: 10/081,936  
Filed: February 20, 2002

accompanying substitute for form PTO-1449 marked with an asterisk (\*). Since these references were previously disclosed in the above-mentioned application, in accordance with 37 C.F.R. § 1.98(d), no copies of these references are enclosed.

Further, in accordance with the provisions of 37 C.F.R. § 1.98(a)(3) and MPEP § 609(III)(A)(3), Applicant submits that reference no. B8 is not in the English language and directs the Examiner's attention to the English language abstract of same enclosed herewith for a concise statement as to its relevance.

Further, in satisfaction of the duty of disclosure under 37 C.F.R. § 1.56, and as required by M.P.E.P. § 2001.06(b), Applicant notes that the present application is related to the following pending patent applications:

1. U.S.S.N. 08/873,978, filed June 12, 1997; U.S.S.N. 09/557,577, filed

April 21, 2000.

Nothing herein shall constitute an admission concerning the contents of any of the cited references, nor shall the inclusion of a reference herein be considered an admission that the reference constitutes prior art against the invention claimed in the above-identified application. Submission of the present document shall not be construed as an admission that a search has been made or that better art does not exist.

As far as is known to the undersigned, this Information Disclosure Statement is being filed within three months of the filing date of a national application, within three months of the date of entry of the national state in an international application, or before the mailing date of a first Office Action on the merits as set forth in 37 C.F.R. § 1.97(b), and therefore no fee is required. While no fee is believed to be due, if this belief is in error, the Commissioner is authorized to charge any additional fees which may be

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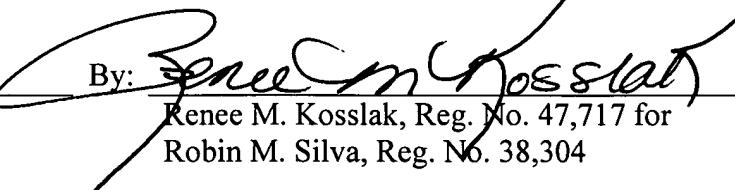
Please direct further questions in connection with this Application to the undersigned at (415) 781-1989.

Respectfully submitted,

DORSEY & WHITNEY LLP

Dated: 2/1/05  
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Robin M. Silva, Reg. No. 38,304

*Filed Under 37 C.F.R. § 1.34*

Attachments: Form SB/08/A-B, substitute for Form PTO-1449

17 cited references  
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Substitute for form 1449A/PTO (Modified)				<b>Complete if Known</b>	
				Application Number	10/081,936
				Filing Date	February 20, 2002
				First Named Inventor	KAYYEM, Jon Faiz
				Art Unit	1631
				Examiner Name	MARSCHEL, Ardin H.
Sheet	1	of	4	Attorney Docket Number	A-63761-7 (463037-00048)

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
A1 *		4,755,458	07-05-1988	Rabbani et al.	
A2		4,840,893	06-20-1989	Hill et al.	
A3 *		4,868,103	09-19-1989	Stavrianopoulos et al.	
A4 *		4,945,045	07-31-1990	Forrest et al.	
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A32 *		6,180,352 B1	01-30-2001	Meade et al.	

Examiner Signature		Date Considered
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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

2

of

4

## Complete if Known

Application Number	10/081,936
Filing Date	February 20, 2002
First Named Inventor	KAYYEM, Jon Faiz
Art Unit	1631
Examiner Name	MARSCHEL, Ardin H.

Attorney Docket Number A-63761-7 (463037-00048)

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A33 *		6,200,761 B1	03-13-2001	Meade et al.	
A34		6,221,583 B1	04-23-2001	Kayyem et al.	
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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>2</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
B1		EP 0 142 301 A2 ✓	05-22-1985	Serono Diagnostics Limited		
B2 *		EP 0 234 938 A2	02-26-1987	Cranfield Institute of Technology		
B3		EP 0 339 821 A1 ✓	11-02-1989	United Kingdom Atomic Energy Authority		
B4		EP 0 439 036 A2 ✓	07-31-1991	Hoffman La Roche		
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B7 *		EP 0 668 502 A2	08-23-1995	Yissum Research Development		
B8 *		JP 63-238166 A ✓	10-04-1988	Mitsubishi Corp.		
B9 *		WO 86/05815 A1	10-09-1986	Genetics International Inc.		
B10 *		WO 90/05732 A1	05-31-1990	The Trustees of Columbia University in the City of New York		
B11		WO 92/10757 A1 ↗	06-25-1992	Boehringer Mannheim GmbH		
B12		WO 93/22678 A2/A3 ✓	11-11-1993	Massachusetts Institute of Technology		
B13		WO 93/25898 A1	12-23-1993	Medisense, Inc.		

Examiner Signature	Date Considered

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Substitute for form 1449A/PTO (Modified) <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)				<b>Complete if Known</b>	
Sheet	3	of	4	Application Number	10/081,936
				Filing Date	February 20, 2002
				First Named Inventor	KAYYEM, Jon Faiz
				Art Unit	1631
				Examiner Name	MARSCHEL, Ardin H.
				Attorney Docket Number	A-63761-7 (463037-00048)

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B14 *		WO 94/22889 A1	10-13-1994	Cis Bio International		
B15 *		WO 95/15971 A2/A3	06-15-1995	California Institute of Technology		
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B19		WO 97/46568 A1 ✓	12-11-1997	California Institute of Technology		
B20		WO 98/20162 A2/A3	05-14-1998	Clinical Micro Sensors, Inc.		
B21 *		WO 98/57159 A1	12-17-1998	Clinical Micro Sensors, Inc.		

#### NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>6</sup>
C1 *		AIZAWA, M., et al., "Integrated molecular systems for biosensors," <i>Sens. Actuators B Chem.</i> 24(1&3):1-5 (Mar. 1995).	
C2		ARKIN, M., et al., "Evidence for Photoelectron Transfer Through DNA Intercalation," <i>J. Inorg. Biochem. Abstr.</i> , 6th Int. Conf. Bioinorg. Chem. 51(1&2):526 (1993).	
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C6 *		BRUN, A., et al., "Photochemistry of intercalated quaternary diazaaromatic salts," <i>J. Am. Chem. Soc.</i> 113(21):8153-8159 (Oct. 1991).	
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C9 *		DEGANI, Y., et al., "Direct electrical communication between chemically modified enzymes and metal electrodes: 2. Methods for bonding electron-transfer relays to glucose oxidase and D-amino-acid oxidase," <i>J. Am. Chem. Soc.</i> 110(8):2615-2620 (Apr. 1988).	
C10 *		DEGANI, Y., et al., "Direct electrical communication between chemically modified enzymes and metal electrodes. 1. Electron transfer from glucose oxidase to metal electrodes via electron relays, bound covalently to the enzyme," <i>J. Phys. Chem.</i> 91(6):1285-1288 (Mar. 1987).	

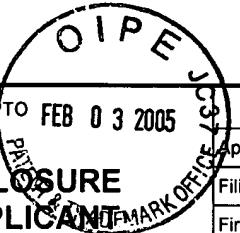
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <small>(use as many sheets as necessary)</small>				Application Number <b>10/081,936</b>	Filing Date <b>February 20, 2002</b>
				First Named Inventor <b>KAYYEM, Jon Faiz</b>	Art Unit <b>1631</b>
				Examiner Name <b>MARSCHEL, Ardin H.</b>	
Sheet	4	of	4	Attorney Docket Number <b>A-63761-7 (463037-00048)</b>	

#### NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T <sup>6</sup>
	C11 *	DEGANI, Y., et al., "Electrical communication between redox centers of glucose oxidase and electrodes via electrostatically and covalently bound redox polymers," <i>J. Am. Chem. Soc.</i> 111(7):2357-2358 (Mar. 1989).			
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	C14 *	GREGG, B., et al., "Cross-linked redox gels containing glucose oxidase for amperometric biosensor applications," <i>Anal. Chem.</i> 62(3):258-263 (Feb. 1990).			
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	C25 *	UOSAKI, K., et al., "A self-assembled monolayer of ferrocenylalkane thiols on gold as an electron mediator for the reduction of Fe(III)-EDTA in solution," <i>Electrochim. Acta</i> 36(11/12):1799-1801 (1991).			
	C26 *	WEBER, K., et al., "Voltammetry or redox-active groups irreversibly adsorbed onto electrodes. Treatment using the Marcus relation between rate and overpotential," <i>Anal. Chem.</i> 66(19):3164-3172 (Oct. 1994).			
	C27	WELCH, T., et al., "Distribution of metal complexes bound to DNA determined by normal pulse voltammetry," <i>J. Phys. Chem.</i> 100(32):13829-13836 (Aug. 1996).			

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